

Fluor Fernald, Inc.
P.O. Box 538704
Cincinnati, OH 45253-8704

3376

(513)648-3000

FLUOR GLOBAL SERVICES

November 17, 2000

Fernald Environmental Management Project
Letter No. C: SWP(ARWWP):2000-0020

Mr. Thomas A. Winston, District Chief
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Winston:

**NONCOMPLIANCE REPORT - OCTOBER 2000 - NPDES PERMIT NUMBER 1100000*FD -
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT (FEMP)**

Enclosed is the Noncompliance Report for October 2000. If you have any questions,
please contact Mr. Frank Johnston at (513) 648-5294.

Sincerely,



David J. Brettschneider
Project Manager

DJB:FLJ

c: Joe Bartoszek, OEPA-SWDO
N. Hallein, EM-42/CLOV
Ev Henry, Fluor Fernald, MS52-5
William Hertel, Fluor Fernald, MS52-5
Rob Janke, DOE-FEMP, MS45
Marc Jewett, Fluor Fernald, MS52
Marlene Landrum, Fluor Fernald, MS52-2
Tim Poff, Fluor Fernald, MS65-2
Caran Siefert, Fluor Fernald, MS52-2
Ed Skintik, DOE-FEMP, MS45
Tom Schneider, OEPA-SWDO
AR Coordinator, MS78

w/o encl.:

Donna Metzler, Fluor Fernald, MS52-5
File Record Subject : NPDES Permit
Project Number52700

NONCOMPLIANCE REPORT
NPDES PERMIT NO. 11O00004*FD
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

3376

The following table describes the October 2000 noncompliance with the discharge limitations specified in the FEMP NPDES Permit. This table lists the affected outfall, dates of the noncompliance, parameter, permit limits, and measured effluent concentrations.

SEWAGE TREATMENT PLANT EFFLUENT - OUTFALL *4601			
DATE	PARAMETER	PERMIT LIMIT	ACTUAL MEASUREMENT
October 26, 2000	TSS Concentration	40 mg/l	41.0 mg/l

There has been no specific cause identified for the TSS noncompliance. Past TSS control problems have been thought to be related to excessive infiltration/inflow or low temperatures adversely impacting the metabolic processes within the activated sludge process. These issues do not appear to have played a role in this exceedance. There was no recorded rainfall on October 26, with the most recent measured rainfall being 0.03 inches on October 24. Flow rates during the week of October 23 were steady with little variation. Temperatures during the week of October 23 were mild with highs in the seventy's and lows in the fifty's. In fact, temperatures were consistently mild from about October 10 through October 31. The measured STP effluent temperature on October 26 was measured at 20.5 degrees Celsius and ranged from 19.5 to 20.5 during the week of October 23. It does not appear that low or varying temperatures played a role as it is suspected during the winter months.

Operational records indicate that all systems were on-line and operating within normal parameters. The ultraviolet disinfection units were recording low intensities during October 25 and 26, which was found to be related to solids carryover. These units were cleaned and the cleaning solution returned to the head of the plant. The BOD removal during the month was acceptable indicating satisfactory operation in this respect.

The problems with suspended solids control in the STP effluent are not having an adverse impact on the final outfall to the Great Miami River (Outfall 4001). The TSS measured on October 26, 2000 at 4001 was less than 2.0 mg/l, while the monthly average TSS concentration at 4001 was 2.1 mg/l.

Fluor Fernald operations staff will continue to closely monitor the operation of the STP and make adjusts as appropriate.